Mechanical and Manufacturing Engineering

Course Outline

Term 1 2019

MMAN4020

THESIS B

Contents

1. Staff contact

All academic staff, together with some senior engineers from industry, act as supervisors to students undertaking BE thesis work. Support is also provided by the workshop and laboratory staff.

Contact details and consultation times for course convenor

Mr David Lyons CEng FRINA MIEAust GCULT
Office location: Ainsworth J17 208D
Tel: (02) 9385 6120
Email: david.lyons@unsw.edu.au (email is the best form of contact)
Moodle:

your supervisor.

Various factors, such as your own ability, your target grade, etc., will influence the time needed in your case.

This means that you should aim to spend not less than about 10 h/w on this course, including consultation with supervisor and workshop/laboratory staff and library/internet search. However, most students spend more time on their thesis work.

It is essential that you consult the Moodle site *throughout the semester* for the most up-to-date and detailed information relating to Thesis B. All announcements relating to Thesis B will be made via Moodle. Numerous announcements will be made, including in relation to:

- **Submission: your Thesis report submission via Moodle; changes to thesis report format or size etc.**
- **Your registration for the Thesis Conference. Attendance at the conference is compulsory and attracts a maximum of 10% of the course mark for your presentation.**
- **The end-of-semester Thesis Conference timetable.**

Specific requests will also be made via your UNSW email addresses. Please regularly check your email for direct communications.

Contact hours

There are no set contact hours for thesis. You must make your own arrangements for consultations with your supervisor, lab and workshop times etc.

Summary and Aims of the course

MMAN4010 and MMAN4020 are usually completed in two consecutive semesters (the “old” two-semester academic year; discontinued in this course after T1-2019) during your last academic year. This is the only course where the students have complete freedom to work on his/her chosen thesis project from the initiation to the end – the project contains a large amount of original research and/or novel design work or analysis. It is not the responsibility of the supervisor to tell the student what to do, nor should it be assumed that the supervisor is an expert in all areas of engineering. They are there to offer guidance and advice, as are laboratory staff, workshop staff, and others in the school that may have expertise in the area of your project. The successful execution of the project is solely the responsibility of the student.

MMAN4020 is to be taken in the last semester required for the completion of all requirements for the award of the degree. This course—together with MMAN4010 Thesis A, which is to be taken in the previous semester—

After successfully completing this course, you should be able to:

Learning Outcome	EA Stage 1 Competencies

You are required to provide the final details (title, supervisor, abstract) of your project on Moodle before **Friday 5pm, Week 5**. Failure to do so will incur late penalties, as your report will not be allocated for marking, and your presentation will not be scheduled in the Thesis Conference.

These details are **not** ported over from MMAN4010 due to Moodle's limitations, so you will need to submit them again.

Discrepancy amongst thesis marks

Thesis marks will be provided by the two assessors independently, without collusion or knowledge of the other mark.

For any mark difference less than or equal to 10 marks, the unweighted average.

For any mark difference of 11-

See Moodle for further tips and helpful files including templates.

Grade	Mark	Brief description	Explanation/Examples
High Distinction	19 – 20	Will have wider impact now.	This is valuable work. This work can easily form the basis of a peer-reviewed journal publication, or other form of professional dissemination/presentation appropriate to the field (i.e. patent application, best practice document at a company, trade publication, workshop, etc.).

Criteria 4: Document presentation (10%)

Grade	Mark	Brief description	Explanation/Examples
Fail	0 – 4	Impedes document reading	Presentation is poor to the extent that it impedes reading of the document. Examples include multiple inconsistent citation styles or incomplete citations, unintelligible grammar, figures or tables not labelled or badly inconsistent document formatting.
Pass	5	Poor formatting / document structure	Document is not at a professional level. Although figures and diagrams are labelled and references in text match reference list (and vice versa), formatting is unclear and inconsistent to the extent that the reader can lose track of the context when reading. The structure of the document is poor or illogical, with little discernible flow. Document is not at a professional level. Figures and diagrams are l*nBir gþ1.Irofess3 nt. Exdh refereams
Credit	6 – 7	Poor judgement with respect to layout, possible padding	

Thesis presentation marking rubrics

Aspect 1: Presentation skills (25%)

Criteria	Grade
Did the presenter speak with clarity (volume, speed, enunciation)?	/5
Did the presenter speak in an engaging way (tone, passion)?	/5
Did the presenter engage the audience (eye contact, body language)?	/5
Did the presenter deliver in a relaxed, confident manner?	/5
Did the speaker make good use of well-designed visual aids?	/5

Aspect 2: Knowledge base (25%)

Criteria	Grade
Was proper background information on the topic given?	/5
Was the material selected for presentation appropriate to the topic?	/5
Was enough essential information given to allow the audience to effectively evaluate the work done in context?	/5
Was the talk free of irrelevant or filler information?	/5
Did the presenter demonstrate a clear understanding of the material presented?	/5

Aspect 3: Critical thinking & planning (30%)

Criteria	Grade
Did the approach to the work demonstrate thought and planning?	/5
Were the strengths and weaknesses of the work, and the methods used to gather evidence/data, clearly explained?	/5
Did the presenter demonstrate they had completed progress on their topic?	/15
Did answers to questions show an understanding of the project and background?	/5

Aspect 4: Overall impression (20%)

Criteria	Grade
Overall impression of the presentation	/20

Consequences if you fail MMAN4020

If you fail MMAN4020 in T1-2019, you will need to enrol in the “new” MMAN4010/MMAN4020 Practice Thesis A & B in T2-2019, or re-enrol in the “old” MMAN4020 again with the same project (by application only; needs the consent of an appropriate supervisor).

Late Procedure

In all cases, applications for late submission must be applied for through myUNSW for Special Consideration in advance of the due date. This is at the discretion of the thesis coordinator but will only be granted in exceptional circumstances.

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of 20 per cent (20%) of the maximum mark possible for that assessment item, per calendar day.

Any thesis not turned in within 6 weeks after the initial deadline (exclusive of any extension granted) will be finalised at zero (0) marks.

The late penalty is applied per calendar day (including weekends and public holidays) that

website with a wealth of resources to support students to understand and avoid plagiarism, visit: student.unsw.edu.au/plagiarism. The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one. Consult http://www.lc.unsw.edu.au/.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealing another student's work or paying someone to do your work, may be investigated under the Student Misconduct Procedures.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (such as plagiarism in an honours thesis) suspension from the university. The Student Misconduct Procedures are available here:
www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf

10. Administrative matters

All students are expected to read and be familiar with School guidelines and polices, available on the intranet. In particular, students should be familiar with the following:

- Attendance
- UNSW Email Address
- Computing Facilities
- Special Consideration
- Exams
- Approved Calculators
- Academic Honesty and Plagiarism
- Student Equity and Disabilities Unit
- Health and Safety
- Lab Access
- Makerspace
- UNSW Timetable
- UNSW Handbook
- UNSW Mechanical and Manufacturing Engineering

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